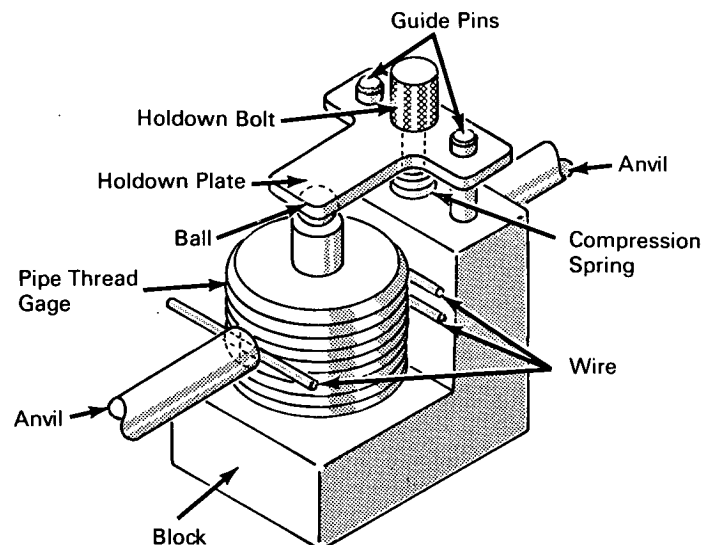


# NASA TECH BRIEF



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## Holding Fixture Facilitates Pipe Thread Gage Measurements



### The problem:

To design a fixture to facilitate the measurement of the pitch diameter of the tapered threads of a pipe thread gage. Two wires must be held in position in the threads while a third wire is similarly held on the opposite side of the gage. The three wires and thread gage must be held in this manner while the wires are brought between the two anvils of a micrometer measuring instrument.

### The solution:

A holding fixture that holds the thread gage and the three wires in the proper relationship.

### How it's done:

The pipe thread gage is placed on the holding fixture with two wires engaged in the threads. The mounted fixture is then placed between the anvils of the measuring instrument and the third wire is engaged in the proper position, opposite the other two. The anvils are then brought into contact with the third wire and the back of the holder.

### Notes:

1. This device, with slight modification, can be used to hold two wires and straight or tapered thread gages, and involute spur gears.

(continued overleaf)

2. Inquiries concerning this invention may be directed to:

Technology Utilization Officer  
Marshall Space Flight Center  
Huntsville, Alabama 35812  
Reference: B67-10066

**Patent status:**

Inquiries about obtaining rights for the commercial use of this invention may be made to NASA, Code, GP, Washington, D.C. 20546.

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